

Datasheet

**Interferon gamma**

**Mouse Recombinant**

| Product   | Description                         | Catalogue-No.            | Size            |
|-----------|-------------------------------------|--------------------------|-----------------|
| IFN gamma | Interferon gamma, mouse recombinant | CB-2230030<br>CB-2230031 | 20 µg<br>100 µg |

**Product description**

Synonyms: IFN-γ, Immune interferon, type II interferon, T-cell interferon

Interferon gamma (IFN-g) is produced by lymphocytes which have been activated by specific antigens or mitogens. IFN-g, in addition to having antiviral activity, has important immune-regulatory functions, it is a potent activator of macrophages, and has anti-proliferative effects on transformed cells and it can potentiate the anti-viral and anti-tumor effects of type I interferons. IFN-g mouse recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids and having a molecular mass of 15.6 kDa. The IFN-gamma is purified by proprietary chromatographic techniques.

**Solubility, stability, and storage conditions**

It is recommended to reconstitute the lyophilized IFN-g in sterile distilled water not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

Lyophilized IFN-g although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution IFN-g should be stored at 2-8° C between up to 7 days and for future use below -20° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Composition**

Lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution in PBS, pH 7.4 and 5% trehalose. Sterile filtered white lyophilized (freeze-dried) powder.

Amino acid sequence: MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII SFYLRLEFVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESSLRKRK RSRC

Purity: >95% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE

Biological activity: The specific activity as determined in a viral resistance assay is < 0.1 ng/ml, corresponding to a specific activity of 1 x 10<sup>7</sup> U/mg.

**Suitability**

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

**Technical Support**

Additional information will be available on our website: [www.pan-biotech.com](http://www.pan-biotech.com)

For technical support or questions or please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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